

Comparisons of Job Characteristics

Focus Occupation: Structural Iron and Steel Workers (47-2221)

Associated Occupation: Roustabouts, Oil and Gas (47-5071)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 63

Focus Occupation: Structural Iron and Steel Workers (47-2221)

Associated Occupation: Roustabouts, Oil and Gas (47-5071)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	14.3	13.5	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	12.2	8.9	<<	Extensive education and/or training may be required
Production and Processing	6.0	10.3	13.2	>>	Current knowledge level is likely more than sufficient
Physics	4.3	9.7	6.9	<<	Extensive education and/or training may be required
Chemistry	4.8	9.2	7.0	<<	Extensive education and/or training may be required
Transportation	4.6	8.4	5.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Structural Iron and Steel Workers (47-2221)

Associated Occupation: Roustabouts, Oil and Gas (47-5071)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	10.4	10.2	0	Current skill level may be sufficient
Repairing	3.4	9.6	6.2	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	9.5	10.8	>	Skill level is likely sufficient
Quality Control Analysis	5.9	8.7	8.3	0	Current skill level may be sufficient
Equipment Maintenance	3.5	8.0	5.7	<<	Extensive development of skills in this area may be required

Troubleshooting	4.5	7.7	5.9	<	A higher skill level may be required
Equipment Selection	3.3	7.0	6.1	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 86			
Focus Occupation: Structural Iron and Steel Workers (47-2221) Associated Occupation: Roustabouts, Oil and Gas (47-5071)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	12.9	13.4	0	Current ability level may be sufficient
Multilimb Coordination	6.0	11.6	15.3	>>	Current ability level is likely more than sufficient
Static Strength	5.0	10.7	16.6	>>	Current ability level is likely more than sufficient
Depth Perception	5.3	10.6	13.3	>	Current ability level is likely sufficient
Gross Body Equilibrium	3.2	7.5	13.0	>>	Current ability level is likely more than sufficient
Glare Sensitivity	2.6	6.0	8.5	>>	Current ability level is likely more than sufficient
Peripheral Vision	2.2	6.0	6.8	>	Current ability level is likely sufficient
Sound Localization	2.2	5.5	5.4	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 78
Focus Occupation: Structural Iron and Steel Workers (47-2221) Associated Occupation: Roustabouts, Oil and Gas (47-5071)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Build or repair structures in construction, repair, or manufacturing setting	54	
Erect scaffold	56	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Move or fit heavy objects	8	
Perform safety inspections in construction or resource extraction setting	46	
Use hand or power tools	2	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 76

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Roustabouts, Oil and Gas (47-5071)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Face and head protection	7
Fall protection	16
Finance accounting and enterprise resource planning ERP software	2
Fire fighting equipment	16
Forming tools	2
Hearing protectors	12
Holding and clamping tools	3
Ladders and scaffolding	6
Lifting equipment and accessories	3
Pneumatic tools	8
Power tools	2
Pumps	9
Respiratory protection	6
Safety apparel	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.